Date: Sun, 8 May 94 04:30:30 PDT

From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>

Errors-To: Ham-Space-Errors@UCSD.Edu

Reply-To: Ham-Space@UCSD.Edu

Precedence: Bulk

Subject: Ham-Space Digest V94 #117

To: Ham-Space

Ham-Space Digest Sun, 8 May 94 Volume 94 : Issue 117

Today's Topics:

Mac Satellite Tracking Program
MIR station
ORBS\$126.2L.AMSAT
ORBS\$126.MICRO.AMSAT
ORBS\$126.MISC.AMSAT
ORBS\$126.OSCAR.AMSAT
ORBS\$126.WEATH.AMSAT
Russian space station MIR

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 7 May 94 14:47:28 GMT

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!cyber2.cyberstore.ca!nwnexus!ole!rwing!eskimo!aandh@network.ucsd.edu

Subject: Mac Satellite Tracking Program

To: ham-space@ucsd.edu

Hi, JOHN check this mo qst had info from Amsat on traking program for Mac

73 Jim UA4PDG/K7UDG

Date: Sat, 7 May 1994 04:49:23 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!usenet.ucs.indiana.edu!nickel.ucs.indiana.edu!alwalsh@network.ucsd.edu

Subject: MIR station
To: ham-space@ucsd.edu

In article <85@ce6fyn.radio.cl>,
Juan Carlos y Cesar Hoyuela <ce6fyn@enlaces.ufro.cl> wrote:
>Hi I'm interesting in contac with, MIR
>anyone now what is the operating frecuency by packet or fone in
>VHF.

>please send msg: ce6fyn@ce6fyn.radio.cl

You can work MIR on 145.55mhz.

Good luck and 73.

-Alan

Date: Fri, 6 May 1994 07:35:00 MDT

From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!

ve6mgs!usenet@decwrl.dec.com Subject: ORBS\$126.2L.AMSAT To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$0RBS-126.N 2Line Orbital Elements 126.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT FROM WA5QGD FORT WORTH,TX May 6, 1994 BID: \$ORBS-126.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ 2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJJKKKKKZ KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

- 1 14129U 83058B 94114.79345608 -.00000048 00000-0 10000-3 0 2756
- 2 14129 27.1659 330.6978 6021287 173.0169 202.1666 2.05879661 81688 UO-11
- 1 14781U 84021B 94121.50940340 .00000196 00000-0 41030-4 0 6858
- 2 14781 97.7888 138.4184 0013044 60.7255 299.5253 14.69199714543453 RS-10/11
- 1 18129U 87054A 94124.10557735 .00000155 00000-0 15346-3 0 8945

- 2 18129 82.9268 1.4316 0012217 139.7745 220.4499 13.72337575343869 A0-13
- 1 19216U 88051B 94124.38270944 -.00000711 00000-0 10000-4 0 9072
- 2 19216 57.8186 254.4324 7215430 340.4805 2.0450 2.09726814 45094 F0-20
- 1 20480U 90013C 94123.46226144 -.00000027 00000-0 44326-5 0 6806
- 2 20480 99.0307 283.7490 0541291 80.7567 285.4319 12.83225461198398 A0-21
- 1 21087U 91006A 94124.13934910 .00000094 00000-0 82657-4 0 4602
- 2 21087 82.9448 175.3061 0034211 204.5459 155.4070 13.74538688163531 RS-12/13
- 1 21089U 91007A 94125.20169600 .00000049 00000-0 35936-4 0 6846
- 2 21089 82.9227 43.3261 0027609 227.9190 131.9616 13.74039911162740 ARSENE
- 1 22654U 93031B 94124.94294243 -.00000120 00000-0 00000 0 0 2516
- 1 20437U 90005B 94124.20914538 .00000048 00000-0 35670-4 0 9854
- 2 20437 98.5906 209.5802 0010866 325.4635 34.5845 14.29840229223300 A0-16
- 1 20439U 90005D 94124.19642159 .00000047 00000-0 35163-4 0 7855
- 2 20439 98.5995 210.7561 0011022 326.4829 33.5660 14.29894404223316 D0-17
- 1 20440U 90005E 94123.24545814 .00000049 00000-0 35934-4 0 7849
- 2 20440 98.5999 210.1236 0011292 328.2125 31.8370 14.30033516223199 WO-18
- 1 20441U 90005F 94124.26952701 .00000035 00000-0 30609-4 0 7861
- 2 20441 98.5998 211.1390 0011926 325.3145 34.7256 14.30008193223340 LO-19
- 1 20442U 90005G 94125.23015124 .00000054 00000-0 37901-4 0 7840
- 2 20442 98.5968 212.3325 0011929 321.6769 38.3568 14.30104065223490 IIO-22
- 1 21575U 91050B 94124.19704613 .00000068 00000-0 37532-4 0 4876
- 2 21575 98.4373 199.5777 0008746 62.7150 297.4930 14.36911301146764 KO-23
- 1 22077U 92052B 94124.15495470 -.00000037 00000-0 10000-3 0 3822
- 2 22077 66.0837 12.1755 0013264 298.7386 61.2299 12.86285580 81126 A0-27
- 1 22825U 93061C 94121.20829173 .00000061 00000-0 42616-4 0 2811
- 2 22825 98.6565 197.4833 0009082 352.4372 7.6673 14.27620742 30984 IO-26
- 1 22826U 93061D 94125.18734415 .00000029 00000-0 29603-4 0 2823
- 2 22826 98.6561 201.4545 0009557 342.2965 17.7898 14.27724379 31555 KO-25
- 1 22830U 93061H 94124.22670221 .00000044 00000-0 35042-4 0 2850
- 2 22830 98.5577 198.2216 0011176 310.2112 49.8089 14.28050061 31428 NOAA-9
- 1 15427U 84123A 94116.57301527 .00000079 00000-0 66156-4 0 7989

- 2 15427 99.0577 166.4449 0015509 8.6358 351.5077 14.13609653483058 NOAA-10
- 1 16969U 86073A 94120.19649106 -.00000019 00000-0 10000-4 0 7014
- 2 16969 98.5128 130.6674 0012795 103.3153 256.9287 14.24880247395773 MET-2/17
- 1 18820U 88005A 94124.01702454 .00000004 00000-0 -91349-5 0 2835
- 2 18820 82.5393 303.7245 0016034 309.9437 50.0314 13.84714176316245 MET-3/2
- 1 19336U 88064A 94123.56735553 .00000051 00000-0 10000-3 0 2809
- 2 19336 82.5431 355.2630 0018414 17.7279 342.4475 13.16966951277385 NOAA-11
- 1 19531U 88089A 94124.23880605 .00000065 00000-0 59988-4 0 6243
- 2 19531 99.1695 112.0777 0010844 258.7118 101.2834 14.12980952289014 MET-2/18
- 1 19851U 89018A 94124.20611987 .00000064 00000-0 43646-4 0 2826
- 2 19851 82.5208 178.9830 0014331 357.6373 2.4716 13.84363931261609 MET-3/3
- 1 20305U 89086A 94123.13024986 .00000044 00000-0 10000-3 0 356
- 2 20305 82.5506 301.1352 0008080 47.0743 313.1046 13.04426156217026 MET-2/19
- 1 20670U 90057A 94123.34265584 .00000023 00000-0 79036-5 0 7849
- 2 20670 82.5437 244.0769 0014580 275.8461 84.1027 13.84188432194412 FY-1/2
- 1 20788U 90081A 94125.06255617 .00000294 00000-0 22339-3 0 9577
- 2 20788 98.8362 146.5700 0015892 125.8309 234.4338 14.01325006187666 MET-2/20
- 1 20826U 90086A 94124.19626608 .00000062 00000-0 42312-4 0 7935
- 2 20826 82.5272 180.9782 0013109 164.3711 195.7842 13.83580182181676 MET-3/4
- 1 21232U 91030A 94125.22936710 .00000050 00000-0 10000-3 0 6912
- 2 21232 82.5450 199.9590 0012139 298.5027 61.4870 13.16461976145704 NOAA-12
- 1 21263U 91032A 94124.37029890 .00000129 00000-0 77309-4 0 293
- 2 21263 98.6231 153.1074 0013424 8.7050 351.4362 14.22399088154303 MET-3/5
- 1 21655U 91056A 94124.14072292 .00000051 00000-0 10000-3 0 6994
- 2 21655 82.5543 147.8549 0012817 313.9632 46.0416 13.16830086130665 MET-2/21
- 1 22782U 93055A 94124.23599147 .00000061 00000-0 42692-4 0 2934
- 2 22782 82.5467 241.2542 0022783 353.1737 6.9124 13.83005015 34012 POSAT
- 1 22829U 93061G 94124.23109781 .00000049 00000-0 37665-4 0 2754
- 2 22829 98.6526 200.5271 0010115 330.9363 29.1250 14.28021851 31424 MIR
- 1 16609U 86017A 94125.19327133 .00008914 00000-0 11866-3 0 5863
- 2 16609 51.6474 41.5640 0014555 219.6070 140.3860 15.58904639469344 HUBBLE
- 1 20580U 90037B 94124.36277877 .00000574 00000-0 42139-4 0 4759

2 20580 28.4682 157.4785 0005921 351.8571 8.1918 14.90591197 22840

GRO

1 21225U 91027B 94121.31897665 .00002568 00000-0 54854-4 0 883

2 21225 28.4633 197.4670 0003050 45.9485 314.1339 15.40718015 49703

UARS

1 21701U 91063B 94125.02595764 .00003978 00000-0 36832-3 0 5144

2 21701 56.9874 332.0307 0005158 90.9475 269.2149 14.96482672144475

/EX

Date: Fri, 6 May 1994 07:31:00 MDT

From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!

ve6mgs!usenet@decwrl.dec.com
Subject: ORBS\$126.MICRO.AMSAT

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-126.D Orbital Elements 126.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS

FROM WA5QGD FORT WORTH, TX May 6, 1994

BID: \$0RBS-126.D

TO ALL RADIO AMATEURS BT

Satellite: UO-14

Catalog number: 20437

Epoch time: 94124.20914538

Element set: 985 Inclination: 98.5906 deg

RA of node: 209.5802 deg

Eccentricity: 0.0010866

Arg of perigee: 325.4635 deg
Mean anomaly: 34.5845 deg
Mean motion: 14.29840229 rev/day
Decay rate: 4.8e-07 rev/day^2

Epoch rev: 22330

Checksum: 310

Satellite: A0-16

Catalog number: 20439

Epoch time: 94124.19642159

Element set: 785
Inclination: 98.5995 deg

RA of node: 210.7561 deg

Eccentricity: 0.0011022

Arg of perigee: 326.4829 deg Mean anomaly: 33.5660 deg Mean motion: 14.29894404 rev/day Decay rate: 4.7e-07 rev/day^2

Epoch rev: 22331

Checksum: 310

Satellite: DO-17 Catalog number: 20440

Epoch time: 94123.24545814

Element set: 784
Inclination: 98.5999 deg

RA of node: 210.1236 deg

Eccentricity: 0.0011292

Arg of perigee: 328.2125 deg
Mean anomaly: 31.8370 deg
Mean motion: 14.30033516 rev/day
Decay rate: 4.9e-07 rev/day^2

Epoch rev: 22319

Checksum: 280

Satellite: WO-18

Catalog number: 20441

Epoch time: 94124.26952701

Element set: 786
Inclination: 98.5998 deg

RA of node: 211.1390 deg

Eccentricity: 0.0011926

Arg of perigee: 325.3145 deg
Mean anomaly: 34.7256 deg
Mean motion: 14.30008193 rev/day
Decay rate: 3.5e-07 rev/day^2

Epoch rev: 22334

Checksum: 289

Satellite: LO-19 Catalog number: 20442

Epoch time: 94125.23015124

Element set: 784
Inclination: 98.5968 deg

RA of node: 212.3325 deg

Eccentricity: 0.0011929

Arg of perigee: 321.6769 deg
Mean anomaly: 38.3568 deg
Mean motion: 14.30104065 rev/day
Decay rate: 5.4e-07 rev/day^2

Epoch rev: 22349

Checksum: 296

Satellite: UO-22

Catalog number: 21575

Epoch time: 94124.19704613

Element set: 487 Inclination: 98.4373 deg

RA of node: 199.5777 deg

Eccentricity: 0.0008746

Arg of perigee: 62.7150 deg
Mean anomaly: 297.4930 deg
Mean motion: 14.36911301 rev/day
Decay rate: 6.8e-07 rev/day^2

Epoch rev: 14676

Checksum: 331

Satellite: KO-23 Catalog number: 22077

Epoch time: 94124.15495470

Element set: 382 Inclination: 66.0837 deg

RA of node: 12.1755 deg

Eccentricity: 0.0013264

Arg of perigee: 298.7386 deg
Mean anomaly: 61.2299 deg
Mean motion: 12.86285580 rev/day
Decay rate: -3.7e-07 rev/day^2

Epoch rev: 8112

Checksum: 309

Satellite: A0-27

Catalog number: 22825

Epoch time: 94121.20829173

Element set: 281
Inclination: 98.6565 deg

RA of node: 197.4833 deg

Eccentricity: 0.0009082

Arg of perigee: 352.4372 deg
Mean anomaly: 7.6673 deg
Mean motion: 14.27620742 rev/day
Decay rate: 6.1e-07 rev/day^2

Epoch rev: 3098

Checksum: 309

Satellite: IO-26 Catalog number: 22826

Epoch time: 94125.18734415

Element set: 282
Inclination: 98.6561 deg

RA of node: 201.4545 deg

Eccentricity: 0.0009557

Arg of perigee: 342.2965 deg
Mean anomaly: 17.7898 deg
Mean motion: 14.27724379 rev/day
Decay rate: 2.9e-07 rev/day^2

Epoch rev: 3155

Checksum: 329

Satellite: KO-25

Catalog number: 22830

Epoch time: 94124.22670221

Element set: 285
Inclination: 98.5577 deg

RA of node: 198.2216 deg

Eccentricity: 0.0011176

Arg of perigee: 310.2112 deg
Mean anomaly: 49.8089 deg
Mean motion: 14.28050061 rev/day
Decay rate: 4.4e-07 rev/day^2

Epoch rev: 3142

Checksum: 269

/EX

Date: Fri, 6 May 1994 07:34:00 MDT

From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!

ve6mgs!usenet@decwrl.dec.com
Subject: ORBS\$126.MISC.AMSAT

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-126.M Orbital Elements 126.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES

FROM WA5QGD FORT WORTH, TX May 6, 1994

BID: \$0RBS-126.M

TO ALL RADIO AMATEURS BT

Satellite: POSAT

Catalog number: 22829

Epoch time: 94124.23109781

Element set: 275
Inclination: 98.6526 deg

RA of node: 200.5271 deg

Eccentricity: 0.0010115

Arg of perigee: 330.9363 deg Mean anomaly: 29.1250 deg Mean motion: 14.28021851 rev/day Decay rate: 4.9e-07 rev/day^2

Epoch rev: 3142

Checksum: 260

Satellite: MIR

Catalog number: 16609

Epoch time: 94125.19327133

Element set: 586
Inclination: 51.6474 deg

RA of node: 41.5640 deg

Eccentricity: 0.0014555

Arg of perigee: 219.6070 deg
Mean anomaly: 140.3860 deg
Mean motion: 15.58904639 rev/day
Decay rate: 8.914e-05 rev/day^2

Epoch rev: 46934

Checksum: 311

Satellite: HUBBLE Catalog number: 20580

Epoch time: 94124.36277877

Element set: 475
Inclination: 28.4682 deg

RA of node: 157.4785 deg

Eccentricity: 0.0005921

Arg of perigee: 351.8571 deg
Mean anomaly: 8.1918 deg
Mean motion: 14.90591197 rev/day
Decay rate: 5.74e-06 rev/day^2

Epoch rev: 2284

Checksum: 326

Satellite: GRO

Catalog number: 21225

Epoch time: 94121.31897665

Element set: 88
Inclination: 28.4633 deg

RA of node: 197.4670 deg

Eccentricity: 0.0003050

Arg of perigee: 45.9485 deg
Mean anomaly: 314.1339 deg
Mean motion: 15.40718015 rev/day
Decay rate: 2.568e-05 rev/day^2

Epoch rev: 4970

Checksum: 298

Satellite: UARS

Catalog number: 21701

Epoch time: 94125.02595764

Element set: 514
Inclination: 56.9874 deg

RA of node: 332.0307 deg

Eccentricity: 0.0005158

Arg of perigee: 90.9475 deg
Mean anomaly: 269.2149 deg
Mean motion: 14.96482672 rev/day
Decay rate: 3.978e-05 rev/day^2

Epoch rev: 14447

Checksum: 327

/EX

Date: Fri, 6 May 1994 07:30:00 MDT

From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!

ve6mgs!usenet@decwrl.dec.com
Subject: ORBS\$126.OSCAR.AMSAT

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$0RBS-126.0 Orbital Elements 126.0SCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES

FROM WA5QGD FORT WORTH, TX May 6, 1994

BID: \$0RBS-126.0

TO ALL RADIO AMATEURS BT

Satellite: A0-10

Catalog number: 14129

Epoch time: 94114.79345608

Element set: 275 Inclination: 27.1659 deg

RA of node: 330.6978 deg

Eccentricity: 0.6021287

Arg of perigee: 173.0169 deg
Mean anomaly: 202.1666 deg
Mean motion: 2.05879661 rev/day
Decay rate: -4.8e-07 rev/day^2

Epoch rev: 8168

Checksum: 326

Satellite: UO-11 Catalog number: 14781

Epoch time: 94121.50940340

Element set: 685 Inclination: 97.7888 deg

RA of node: 138.4184 deg

Eccentricity: 0.0013044

Arg of perigee: 60.7255 deg
Mean anomaly: 299.5253 deg
Mean motion: 14.69199714 rev/day
Decay rate: 1.96e-06 rev/day^2

Epoch rev: 54345

Checksum: 330

Satellite: RS-10/11 Catalog number: 18129

Epoch time: 94124.10557735

Element set: 894
Inclination: 82.9268 deg

RA of node: 1.4316 deg

Eccentricity: 0.0012217

Arg of perigee: 139.7745 deg
Mean anomaly: 220.4499 deg
Mean motion: 13.72337575 rev/day
Decay rate: 1.55e-06 rev/day^2

Epoch rev: 34386

Checksum: 315

Satellite: AO-13 Catalog number: 19216

Epoch time: 94124.38270944

Element set: 907 Inclination: 57.8186 deg

RA of node: 254.4324 deg

Eccentricity: 0.7215430

Arg of perigee: 340.4805 deg
Mean anomaly: 2.0450 deg
Mean motion: 2.09726814 rev/day
Decay rate: -7.11e-06 rev/day^2

Epoch rev: 4509

Checksum: 289

Satellite: F0-20

Catalog number: 20480

Epoch time: 94123.46226144

Element set: 680 Inclination: 99.0307 deg

RA of node: 283.7490 deg

Eccentricity: 0.0541291

Arg of perigee: 80.7567 deg Mean anomaly: 285.4319 deg Mean motion: 12.83225461 rev/day Decay rate: -2.7e-07 rev/day^2

Epoch rev: 19839

Checksum: 311

Satellite: A0-21 Catalog number: 21087

Epoch time: 94124.13934910

Element set: 460 Inclination: 82.9448 deg

RA of node: 175.3061 deg

Eccentricity: 0.0034211

Arg of perigee: 204.5459 deg
Mean anomaly: 155.4070 deg
Mean motion: 13.74538688 rev/day
Decay rate: 9.4e-07 rev/day^2

Epoch rev: 16353

Checksum: 296

Satellite: RS-12/13 Catalog number: 21089

Epoch time: 94125.20169600

Element set: 684
Inclination: 82.9227 deg

RA of node: 43.3261 deg

Eccentricity: 0.0027609

Arg of perigee: 227.9190 deg
Mean anomaly: 131.9616 deg
Mean motion: 13.74039911 rev/day
Decay rate: 4.9e-07 rev/day^2

Epoch rev: 16274

Checksum: 302

Satellite: ARSENE Catalog number: 22654

Epoch time: 94124.94294243

Element set: 251
Inclination: 1.7729 deg

RA of node: 101.4452 deg

Eccentricity: 0.2921942

Arg of perigee: 180.0752 deg
Mean anomaly: 180.1868 deg
Mean motion: 1.42202361 rev/day
Decay rate: -1.20e-06 rev/day^2

Epoch rev: 58

Checksum: 258

Date: Fri, 6 May 1994 07:33:00 MDT

From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!

ve6mgs!usenet@decwrl.dec.com
Subject: ORBS\$126.WEATH.AMSAT

To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-126.W Orbital Elements 126.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES

FROM WA5QGD FORT WORTH, TX May 6, 1994

BID: \$0RBS-126.W

TO ALL RADIO AMATEURS BT

Satellite: NOAA-9 Catalog number: 15427

Epoch time: 94116.57301527

Element set: 798
Inclination: 99.0577 deg

RA of node: 166.4449 deg

Eccentricity: 0.0015509

Arg of perigee: 8.6358 deg
Mean anomaly: 351.5077 deg
Mean motion: 14.13609653 rev/day
Decay rate: 7.9e-07 rev/day^2

Epoch rev: 48305

Checksum: 337

Satellite: NOAA-10 Catalog number: 16969

Epoch time: 94120.19649106

Element set: 701 Inclination: 98.5128 deg

RA of node: 130.6674 deg

Eccentricity: 0.0012795

Arg of perigee: 103.3153 deg
Mean anomaly: 256.9287 deg
Mean motion: 14.24880247 rev/day
Decay rate: -1.9e-07 rev/day^2

Epoch rev: 39577

Checksum: 324

Satellite: MET-2/17 Catalog number: 18820

Epoch time: 94124.01702454

Element set: 283
Inclination: 82.5393 deg

RA of node: 303.7245 deg

Eccentricity: 0.0016034

Arg of perigee: 309.9437 deg
Mean anomaly: 50.0314 deg
Mean motion: 13.84714176 rev/day
Decay rate: 4.0e-08 rev/day^2

Epoch rev: 31624

Checksum: 275

Satellite: MET-3/2 Catalog number: 19336

Epoch time: 94123.56735553

Element set: 280 Inclination: 82.5431 deg

RA of node: 355.2630 deg

Eccentricity: 0.0018414

Arg of perigee: 17.7279 deg
Mean anomaly: 342.4475 deg
Mean motion: 13.16966951 rev/day
Decay rate: 5.1e-07 rev/day^2

Epoch rev: 27738

Checksum: 313

Satellite: NOAA-11 Catalog number: 19531

Epoch time: 94124.23880605

Element set: 624
Inclination: 99.1695 deg

RA of node: 112.0777 deg

Eccentricity: 0.0010844

Arg of perigee: 258.7118 deg
Mean anomaly: 101.2834 deg
Mean motion: 14.12980952 rev/day
Decay rate: 6.5e-07 rev/day^2

Epoch rev: 28901

Checksum: 300

Satellite: MET-2/18 Catalog number: 19851

Epoch time: 94124.20611987

Element set: 282
Inclination: 82.5208 deg

RA of node: 178.9830 deg

Eccentricity: 0.0014331

Arg of perigee: 357.6373 deg Mean anomaly: 2.4716 deg Mean motion: 13.84363931 rev/day Decay rate: 6.4e-07 rev/day^2

Epoch rev: 26160

Checksum: 305

Satellite: MET-3/3 Catalog number: 20305

Epoch time: 94123.13024986

Element set: 35
Inclination: 82.5506 deg

RA of node: 301.1352 deg

Eccentricity: 0.0008080

Arg of perigee: 47.0743 deg
Mean anomaly: 313.1046 deg
Mean motion: 13.04426156 rev/day
Decay rate: 4.4e-07 rev/day^2

Epoch rev: 21702

Checksum: 239

Satellite: MET-2/19 Catalog number: 20670

Epoch time: 94123.34265584

Element set: 784
Inclination: 82.5437 deg

RA of node: 244.0769 deg

Eccentricity: 0.0014580

Arg of perigee: 275.8461 deg
Mean anomaly: 84.1027 deg
Mean motion: 13.84188432 rev/day
Decay rate: 2.3e-07 rev/day^2

Epoch rev: 19441

Checksum: 313

Satellite: FY-1/2 Catalog number: 20788

Epoch time: 94125.06255617

Element set: 957
Inclination: 98.8362 deg

RA of node: 146.5700 deg

Eccentricity: 0.0015892

Arg of perigee: 125.8309 deg
Mean anomaly: 234.4338 deg
Mean motion: 14.01325006 rev/day
Decay rate: 2.94e-06 rev/day^2

Epoch rev: 18766

Checksum: 316

Satellite: MET-2/20

Catalog number: 20826

Epoch time: 94124.19626608

Element set: 793 Inclination: 82.5272 deg

RA of node: 180.9782 deg

Eccentricity: 0.0013109

Arg of perigee: 164.3711 deg
Mean anomaly: 195.7842 deg
Mean motion: 13.83580182 rev/day
Decay rate: 6.2e-07 rev/day^2

Epoch rev: 18167

Checksum: 314

Satellite: MET-3/4 Catalog number: 21232

Epoch time: 94125.22936710

Element set: 691 Inclination: 82.5450 deg

RA of node: 199.9590 deg

Eccentricity: 0.0012139

Arg of perigee: 298.5027 deg
Mean anomaly: 61.4870 deg
Mean motion: 13.16461976 rev/day
Decay rate: 5.0e-07 rev/day^2

Epoch rev: 14570

Checksum: 302

Satellite: NOAA-12 Catalog number: 21263

Epoch time: 94124.37029890

Element set: 29
Inclination: 98.6231 deg

RA of node: 153.1074 deg

Eccentricity: 0.0013424

Arg of perigee: 8.7050 deg
Mean anomaly: 351.4362 deg
Mean motion: 14.22399088 rev/day
Decay rate: 1.29e-06 rev/day^2

Epoch rev: 15430

Checksum: 275

Satellite: MET-3/5 Catalog number: 21655

Epoch time: 94124.14072292

Element set: 699
Inclination: 82.5543 deg

RA of node: 147.8549 deg

Eccentricity: 0.0012817

Arg of perigee: 313.9632 deg
Mean anomaly: 46.0416 deg
Mean motion: 13.16830086 rev/day
Decay rate: 5.1e-07 rev/day^2

Epoch rev: 13066

Checksum: 299

Satellite: MET-2/21 Catalog number: 22782

Epoch time: 94124.23599147

Element set: 293
Inclination: 82.5467 deg

RA of node: 241.2542 deg

Eccentricity: 0.0022783

Arg of perigee: 353.1737 deg
Mean anomaly: 6.9124 deg
Mean motion: 13.83005015 rev/day
Decay rate: 6.1e-07 rev/day^2

Epoch rev: 3401

Checksum: 277

/EX

Date: Sat, 7 May 1994 04:48:07 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!usenet.ucs.indiana.edu!nickel.ucs.indiana.edu!alwalsh@network.ucsd.edu

Subject: Russian space station MIR

To: ham-space@ucsd.edu

In article <2q6ar5\$4f9@amhux3.amherst.edu>,
Jared Barney Hertzberg <jbhertzb@unix.amherst.edu> wrote:
>Can anyone tell me what MIR's uplink and downlink frequencies are, how often
>they are likely to transmit, and whether there are any hams aboard at this
>time?
>
>Thanks.
> -Jared Hertzberg N2YES
> jbhertzb@amhux3.amherst.edu
>

The uplink and downlink are the same - 145.55. There's no set schedule as far as I know, they just transmit whenever their work schedule permits. I'm pretty sure that the 1200b packet station is almost always up. And for as long as I can remember (last couple of years), every cosmonaut aboard MIR is a ham. Watch this newsgroup and your local PBBS for info on who's on board and what call sign they are currently using.

Нарру	hunting and	d 73!		
-Alan				
End of	Ham-Space	Digest	V94	<i>#</i> 117
